

General Plan Symbols

	Plan Revision Number
	Detail Number on Sheet Sheet Number Where Detail is Placed
	Keynote Symbol
	Continuation Symbol
	Point Where New Connects To Existing
	Room Name / Number
	Area Being Demolished
	Area Not In Contract

Abbreviations

A, Amp	Ampere	N.C.	Normally Closed
ABV	Above	N.O.	Normally Open
ADA	Americans with Disabilities Act	NC	Noise Criteria
ADD	Addendum	NIC	Not In Contract
AFF	Above Finished Floor	NO, #	Number
AFG	Above Finished Grade	NTS	Not To Scale
AFV	Air Face Velocity	OAT	Outdoor Air Temperature
AFUE	Annual Fuel Utilization Efficiency	OB	Opposed Blade Damper
AHRI	Air Conditioning, Heating and Refrigeration Institute	OC	On Center
AHJ	Authority Having Jurisdiction	O/H	Overhead
ALT	Alternate	PC	Plumbing Contractor
AP	Access Panel	PD	Pressure Drop
APD	Air Pressure Drop	PH	Plumbing
APPROX	Approximately	PLBG	Pressure
ARCH	Architect, Architectural	PRI	Primary
ASHRAE	American Society of Heating, Refrigerating and Air Conditioning Engineers	PSI	Pounds per Square Inch
		PSIG	Pounds per Square Inch Gauge
ASPE	American Society of Plumbing Engineers	PWR	Power
		QTY	Quantity
AUX	Auxiliary	RD	Roof Drain
BFF	Below Finished Floor	REC	Recessed
BFG	Below Finished Grade	RED	Reducer
BLDG	Building	RH	Relative Humidity
BMS	Building Management System	RM	Room
BLW	Below	RPM	Revolutions Per Minute
BTU	British Thermal Units	RTU	Packaged Rooftop Unit
BTUH	British Thermal Units Per Hour	(R)	Relocated
CAP	Capacity	SAT	Supply Air Temperature
CFM	Cubic Feet Per Minute	SF	Square Foot
CLG	Ceiling	SD	Smoke Damper
CONST	Construction	SHR	Sensible Heat Ratio
CONT	Continuation or Continuous	SM	Surface Mount
CONTR	Contractor	SP	Static Pressure
CU	Condensing Unit	SS	Stainless Steel
D	Degree	STD	Standard
DB	Dry Bulb	SYM	Symmetrical
DET	Detail	T	Thermostat
DIA	Diameter	TD	Temperature Drop
DN	Down	TEMP	Temperature
DWG	Drawing	TYP	Typical
EA	Each	UNO	Unless Noted Otherwise
EAT	Entering Air Temperature	UG	Underground
EC	Electrical Contractor	V	Volt
EDD	Entering Dry-Bulb Temperature	VERT	Vertical
ELEC	Electric, Electrical	VFD	Variable Frequency Drive
EQUIP	Equipment	VSC	Variable Speed Controller
EMS	Energy Management System	W	Watt
EWB	Entering Wet-Bulb Temperature	WB	Wet Bulb
EWG	Electric Water Cooler	W/C	Walk-In Cooler
EWH	Electric Water Heater	WPD	Water Pressure Drop
EWT	Entering Water Temperature	W	With
EXH	Exhaust	W/O	Without
(E)	Existing	∠	Angle
°F	Degrees Fahrenheit	@	At
FD	Floor Drain	Δ	Delta
FL	Floor	'	Feet
FLA	Full Load Amps	"	Inches
FOH	Front Of House	#	Number
FPM	Feet Per Minute	Ø	Diameter
FT	Foot/Feet	¢	Center Line
GAL	Gallon	°	Degree
GF	Gas-Fired		
GC	General Contractor		
GPM	Gallons Per Minute		
GYP	Gypsum Board		
HD	Kitchen Hood		
HORIZ	Horizontal		
HP	Horse Power		
HTG	Heating		
HVAC	Heating, Ventilating and Air Conditioning		
IN	Inch		
INV	Invert		
KW	Kilowatt		
KWH	Kilowatt Hour		
LB	Pound		
LAT	Leaving Air Temperature		
LDB	Leaving Dry-Bulb Temp.		
LVR	Louver		
LWB	Leaving Wet-Bulb Temp.		
LWT	Leaving Water Temperature		
LL	Landlord		
MAX	Maximum		
MAU	Makeup Air Unit		
MBH	One Thousand Btu Per Hour		
MC	Mechanical Contractor		
MCA	Minimum Circuit Ampacity		
MCF	One Thousand Cubic Feet		
MCWB	Mean Coincidence Wet-Bulb		
MD	Motorized Damper		
MECH	Mechanical		
MFR	Manufacturer		
MIN	Minimum		
MISC	Miscellaneous		
MTR	Motor		

HVAC Symbols

	Sq. Duct Size (Width x Height)
	Oval Duct Size (Width / Height)
	Round Duct Size (Diameter)
	Existing Duct To Remain
	Duct To Be Demolished
	Supply Air
	Ventilation Air
	Outdoor Air
	Return Air
	Transfer Air
	General Exhaust Air
	Condensate Exhaust Hood
	Kitchen Exhaust Duct
	Flue Gas Vent
	Combustion Air
	Rect. Supply Duct Rise / Drop
	Round Supply Duct Rise / Drop
	Rect. Return Duct Rise / Drop
	Round Return Duct Rise / Drop
	Rect. Exhaust Duct Rise / Drop
	Round Exhaust Duct Rise / Drop
	Perforated Ceiling Diffuser Type (See Schedule)
	Perforated Ceiling Return Airflow, Neck Size / Module Size, Throw Pattern, Max NC Rating
	Adjustable Turbo Nozzle Airflow, Neck Size
	Double Deflection Supply Register Airflow, Nominal Duct Size, Mounting Elevation (Centerline)
	Perforated Ceiling Return Airflow, Nominal Duct Size, Mounting Elevation (Centerline)
	RTU-X Unit Identity, Nominal Cooling Capacity
	RTU-X Heating Capacity, Gas Supply Input Rate
	EF-X Operating Weight
	(E)AHU-X Existing to Remain Equipment
	(R)AHU-X Existing Relocated Equipment
	Equipment to be Demolished
	Damper Types Manual Damper, Motorized Damper, Backdraft Damper, Smoke Damper, Fire Damper, Comb. Fire/Smoke Damper
	Mechanical Devices Duct Smoke Detector, Audio/Visual Remote Smoke Detector Annunciator w/ Remote Key Operated Reset, Unit Identity GridPoint Zone Sensor, GridPoint Thermostat Control, GridPoint Duct Supply Probe

Mechanical Piping Symbols

	Nominal Pipe Size
	Above Ground Piping
	Below Ground Piping
	Pipe Slope (When Applicable)
	Existing Pipe To Remain
	Pipe To Be Demolished
	Chilled-Water Return
	Chilled-Water Supply
	Condensate Drain
	Condenser-Water Return
	Condenser-Water Supply
	Geothermal-Water Return
	Geothermal-Water Supply
	Hot-Water Return
	Hot-Water Supply
	Natural Gas
	Liquid Propane
	Refrigerant Liquid
	Refrigerant Gas
	Refrigerant Discharge
	Steam Supply
	Steam Condensate Return
	Pipe Rise / Drop
	Valve Types Ball Valve, Balancing Valve, Butterfly Valve, Check Valve, Alternate Check Valve, Circuit Setter, Gate Valve, Globe Valve, Locked Shield Valve, Pressure Reducing Valve, Quick Opening Valve, Fluid Strainer, Elec. Control Valve, 3-Way Elec. Valve, Emergency Gas Shutoff, Plug Valve, Gas Shutoff Cock, Gas Regulator

HVAC Specification

SECTION 15732 - Packaged Rooftop Air Conditioning Units

Part 1 - General

1.1 Section Requirements

- Submittal: Product Data and Shop Drawings
- Comply with ASHRAE 15.
- EER: Equal to or greater than prescribed by the energy code adopted by the Authority Having Jurisdiction.
- Warranties: Submit a written warranty, signed by the manufacturer, agreeing to the repair or replacement of components that fail within 5 years of Substantial Completion.

Part 2 - Products

2.1 Packaged Units, 5 to 20 tons

- Factory assembled and tested, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and temperature controls, filters, and dampers.
 - Refer to Rooftop Unit Schedule on drawing M600 for capacities and manufacturers.
 - Evaporator Fans: Belt or direct driven, forward curved centrifugal.
 - Exhaust/Relief Fans: Direct drive, forward curved centrifugal or propeller.
 - Condenser Fans: Direct drive propeller.
 - Refrigerant Coils: Aluminum fins and copper coil
 - Compressors: Serviceable hermetic or fully hermetic, with safety controls, hot gas bypass, and timed off controls.
 - Heat Exchangers: Gas fired, with gas controls, electronic ignition, high limit cutout, and forced draft proving switch.
 - Economizer controls (comparative Enthalpy, 100% capacity)
 - Smoke Detectors: Photoelectric in supply and/or return as called for in schedule on sheet M600.
 - Operating controls: Two stage heating and two stage cooling on units 7-1/2 tons and over.
 - Roof curb.
 - Control Wiring from T-stat to rooftop unit. Shall be 18 GA. / 7 conductor, rated for plenum application.
 - Control Wiring from T-stat to remote sensor: Shall be a separate 18 GA. / 2 conductor shielded, rated for plenum application.

Part 3 - Execution

3.1 Installation

- Install units level and plumb and firmly anchored.
- Connect gas piping to burner with pipe same size as gas train inlet, and provide union with sufficient clearance for burner removal and service.
- Install ducts to termination in roof mounting frames. Terminate ducts through roof structure.
- Connect units to wiring systems and to ground.

End of Section 15732

Section 15810 - Ducts and Accessories

Part 1 General

1.1 Section Requirements

- Submittal: Product Data door fire and smoke dampers
- Comply with NFPA 90B for systems serving spaces more than 25,000 cu ft. in volume or building types II, IV, and V construction for that 3 stories in height.
- Comply with NFPA 90B for systems serving spaces in 1 or 2 family dwellings or serving spaces less than 25,000 cu. ft.
- Comply with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations" for kitchen hood ducts.
- Comply with UL 181 and UL 181A for ducts and closures.
- Testing, Adjusting, and Balancing Agency Qualifications: AABC certified (to be furnished by Tenant).

Part 2 Products

2.1 Ducts

- Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/924
 - Basis of Design Manufacturers: Lindab SPIROsafe, Alternates to the basis of design must be submitted for review.
 - Fittings: Factory product standing seam construction with internal sealing. Fitting with a major axis of 36" or smaller shall be 20 GA. Fitting with a major axis of 37"-48" shall be 18 GA.
- Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.
 - Duct Liner: ASTM C 1071, Type II, with an air stream surface coated with a temperature resistant coating. Thickness: 1-1/2 inch, R-value: 8
 - Adhesive: ASTM C 916, Type I.
 - Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch projection maximum into the air stream.
- Joint and Seam Tape: Comply with UL 181A.
- Joint and Seam Sealant: Comply with UL 181A.
- Rectangular Metal Duct Fabrications: Comply with SMACNA's "HVAC Duct Construction Standard" for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.

2.2 Accessories

- Volume-Control Dampers: Factory fabricated volume control dampers, complete with required hardware and accessories. Single blade and multiple opposed blade, standard leakage rating, and suitable for horizontal or vertical applications.
- Fire-Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL Labeled according to UL 555, "Fire Dampers".
- Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
- Flexible Ducts: Factory fabricated, insulated, round duct, with an outer jacket enclosing 2 inch thick, glass fiber insulation, R-value, 6.0, around a continuous inner liner.

Part 3 Execution

3.1 Installation

- Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.
- Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.
- Avoid passing through electrical equipment spaces and enclosures.
- Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".
- Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.
- Install liner and/or insulation on ductwork per the material schedule on sheet M010.
- Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion of duct liner.
- Install fire and smoke dampers according to manufacturer's UL approved written instructions.
- Install fusible links in fire dampers
- Provide saddle taps at tees for exposed ductwork.

3.2 Testing, Adjusting, and Balancing

- The tenant will supply an independent balance agent to balance and adjust the HVAC installations. The balance agent will be responsible for any pulley or belt changes repaired.
- The GC is to have trained staffed available during the balancing to correct issues noted by the balance agent.
- The balance agent is to balance airflow within distribution systems, including mains, branches, and terminals to indicated quantities +/- 10%. The hood exhaust system shall be balanced to a tolerance of +/- 10% and the make up air system to a tolerance of +/- 10%.
- The balance agent is to supply a copy of the balance report to the Tenant, engineer and general contractor for review.

End of Section 15810

SECTION 15855 - Diffusers, Registers, and Grilles

Part 1 - General

1.1 Section Requirements

- Submittal: None.

Part 2 - Products

2.1 Outlets and Inlets

- All air terminal devices:
 - Refer to Grills, Registers, and Diffusers Schedule for equipment schedule.
 - Manufacturer: As scheduled (NO SUBSTITUTIONS).
 - Material: As scheduled.
 - Finish: As scheduled.
 - Mounting: As scheduled.

Part 3 - Execution

3.1 Installation

- Coordinate location and installation with duct installation and installation of other ceiling and wall mounted items.
- Locate ceiling diffusers, registers, and grilles, as indicated on the architectural "reflected ceiling plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels.

End of Section 15855

HVAC General Notes

- General notes apply to HVAC sheets.
- Work shall comply with state and location code requirements as approved and amended by the authority having jurisdiction, including applicable sections of NFPA, the Mechanical Code, and any interim amendments at the time of the proposal. Purchase permits associated with the work. Obtain inspections required by code. See architectural sheets for prevailing codes.
- Contractor and subcontractors shall review a complete set of the construction documents.
- Coordinate work with the work of other trades, equipment furnished by others, requirements of the owner, and of the existing conditions at the project site.
- Drawings for the mechanical work are diagrammatic, showing the general location, type, layout, and equipment required. The drawings shall not be scaled for exact measurements, refer to architectural drawings for dimensions. Refer to manufacturer's standard installation drawings for equipment connections and installation requirements. Provide ductwork, connections, offsets, accessories, and materials necessary for a complete system.
- Duct dimensions on plans indicate dimensions of internal free area.
- Perforated ceiling diffusers shall be 4-way unless noted otherwise.
- Coordinate roof work with the owner's construction manager prior to construction.
- Unless noted otherwise rectangular duct elbows greater than 45 degrees shall be mitered elbows with double-thickness turning vanes and rectangular duct elbows 45 degrees or less shall be radius elbows with an inside radius of at least 1/2 the width of the duct.
- Replace air filters with new, clean MERV 8 air filters at turnover.
- The term "Furnish" means supply and deliver to the project site, ready for unloading, unpacking, assembly, installation, and similar operations. The term "Install" describes the operations at the project site including the actual unloading, unpacking, assembly, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protect, cleaning, and similar operations. The term "Provide" means to furnish and install, complete and ready for the intended use.
 - Install labeling called for in the mechanical drawings using engraved phenolic plates (white with black lettering) furnished by TSV.
- Provide P3000 12 GA. unistrut with PG finish for duct supports and other unistrut in areas exposed to view. Slotted unistrut and other unistrut with holes is not acceptable.

Responsibility Definitions

GC	General Contractor
LL	Landlord
COZAS	Tenant's CO2 Alarm Supplier
HES	Tenant's HVAC Equipment Supplier
HS	Tenant's Hood Supplier
KES	Tenant's Kitchen Equipment Supplier
MSS	Tenant's Music Systems Supplier
SPS	Tenant's Soda Pop Supplier
TAB	Tenant's Test And Balance Vendor
TCC	Tenant's Cabling Contractor
TDC	Tenant's Duct Cleaner
TEMS	Tenant's Energy Management System Supplier
TLS	Tenant's Light/Lamp Supplier
TMB	Tenant's Menu Board Supplier
TMS	Tenant's Millwork Supplier
TP	Tenant's Phone Supplier
TPS	Tenant's Panelboard Supplier
TRS	Tenant's Railing Supplier
TSV	Tenant's Sign Vendor
TUV	Tenant's UV Sanitizer Supplier
WCS	Tenant's Walk-In Cooler Supplier
WHS	Tenant's Water Heater Supplier

Duct Material Schedule

Application	Allowable Material
Concealed General Exhaust	Rect. or round as shown
Concealed Return	Rect. or round as shown, lined or insulated
Concealed Supply	Rect. or round as shown, lined or insulated
Exposed General Exhaust	Rect. with no exposed duct-sealing mastic
Exposed Return	Rect. with no exposed duct-sealing mastic
Exposed Supply	Rect. lined or round as shown with no exposed duct-sealing mastic
Type I Hood Exhaust	Rect. 16 GA. black iron w/ wrap or UL 1978 factory-manufactured duct w/ wrap (Submit shop drawings for factory manufactured duct for approval prior to ordering)

HVAC SHEET INDEX

M010	HVAC Title Sheet
M100	HVAC Plan
M600	HVAC Schedules
M700	HVAC Details
M701	Hood Drawings
M702	Hood Drawings

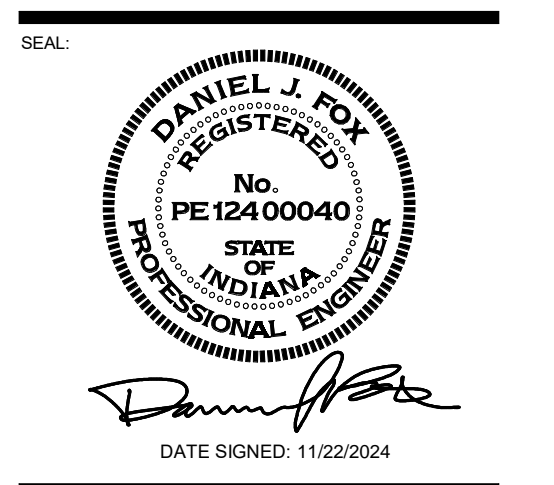
NOTE: All of the General Notes on this sheet are to be applied to all other drawings in this set. The Symbols and Abbreviations shown on this sheet may or may not be used in this set of drawings.



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PROJECT INFORMATION:

STORE NO.: 5378
 "LA PORTE"
 150 PINE LAKE AVENUE
 LA PORTE, IN 46350



PROJECT NO. 2024-0053
 DRAWN BY LCP
 CHECKED BY LAO

ISSUE RECORD:

06/04/2024	PERMIT SET
08/05/2024	BID SET
09/17/2024	CONSTRUCTION SET

REVISIONS:

2	10/30/2024	DB05 UPDATES
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HVAC Plan Notes

- See architectural reflected ceiling plan for ceiling mounted equipment location. Typical.
- Paint ductwork visible through dining room supply registers black. Typical.
- Not used.
- Duct up for transition to RTU-1 return connection in roof curb. RTU-1 shall have an integral smoke detector mounted in the return air stream. Interlock smoke detector to RTU-1 operation.
- Duct up for transition to RTU-2 return connection in roof curb. RTU-2 shall have an integral smoke detector mounted in the return air stream. Interlock smoke detector to RTU-2 operation.
- Duct up from building supply through roof. Transition to RTU-1 supply connection in roof curb.
- Duct up from building supply through roof. Transition to RTU-2 supply connection in roof curb.
- Duct up through roof. Transition to MAU-1 supply connection in roof curb.
- Duct up from hood through roof to EF-1 compliant with NFPA 96. Provide radius elbows with an inside radius of 0.5W at elbows in grease duct.
- Duct up through roof to EF-2.
- 28/6 duct down to makeup air PSP duct connection. Transition to supply plenum opening size. Typical of 3. Cap unused duct connections.
- 8" dia. duct down to AC PSP duct connection. Transition to supply plenum opening size. Typical. Cap unused duct connections.
- Install GridPoint thermostats furnished by TEMS for RTU-1 and RTU-2 at this location at 48" AFF. Coordinate with electrical switching in this area. Provide wiring as shown in detail 8/E710.
- Install GridPoint zone sensor module furnished by TEMS for RTU-1 at this location 72" AFF directly to wall (no junction box). Coordinate location with equipment. Provide wiring as shown in detail 8/E710.
- Install GridPoint zone sensor module furnished by TEMS for RTU-2 at this location 66" AFF directly to wall (No junction box) Coordinate location with equipment. Provide wiring as shown in detail 8/E710.
- Install GridPoint supply probe furnished by TEMS for RTU-1 in the supply ductwork upstream from the first branch connection. Provide wiring as shown in detail 8/E710.
- Install GridPoint supply probe furnished by TEMS for RTU-2 in the supply ductwork upstream from the first branch connection. Provide wiring as shown in detail 8/E710.
- Install remote temperature sensor for hood HD-1 at this location 72" AFF. Coordinate location with equipment. Provide (2) #18 G. thermistor cable from temperature sensor to hood control panel.
- Install kitchen hood, HD-1. Support hood per manufacturer's installation instructions and as detailed in the architectural and structural drawings. Install hood according to the requirements of its listing, in compliance with NFPA 96, the building code, and authorities having jurisdiction. Hood shall have an integral duct collar temperature sensor to automatically energize the exhaust and makeup air fans if cooking temperatures are detected. Exhaust duct system to be welded or factory-manufactured water and airtight. Install cleanouts per code and as shown. Install hood per details 2.4, and 9/M700. Chipotle will provide an independent testing agency for testing the integrity of the grease duct system.
- Install remote condensing unit for walk-in cooler on roof as detailed in the architectural and structural drawings. Install refrigerant line set, thermostatic expansion valve, solenoid valve, temperature control, sight glass, filter drier, pressure control, low ambient controls, and weatherproof housing. Trap and slope refrigerant lines per manufacturer's recommendations. Installation shall comply with ASHRAE/ANSI Standard 15. Install the refrigerant line set under the roof deck to within 3' of the condensing unit. Cut 2-1/2" hole in walk-in cooler roof for refrigerant line set and seal per the cooler manufacturer's installation instructions after line set is installed.
- Install remote condenser for ice machine on roof as detailed in the architectural and structural drawings. Install refrigerant line set, thermostatic expansion valve, solenoid valve, temperature control, sight glass, filter drier, pressure control, low ambient controls, and weatherproof housing. Trap and slope refrigerant lines per manufacturer's recommendations. Seal piping penetrations through roof. Installation shall comply with ASHRAE/ANSI Standard 15. Install the refrigerant line set under the roof deck to within 3' of the remote condenser. If refrigerant piping to ice maker is exposed to public view conceal within a stainless-steel shroud as shown in the architectural drawings.
- Install rooftop equipment per manufacturer's installation instructions and as detailed in the architectural and structural drawings.
- Install Exhaust fan EF-1 per detail 5/M700 and as detailed in the architectural and structural drawings. Install grease ViroGuard system furnished by Chipotle on exhaust fan, EF-1.
- Provide supply diffuser connection to supply system per detail 1/M700. Typical.
- Provide audio/visual remote smoke detector annunciator with remote key operated reset. Wire a unit back to each smoke detector. Mount unit 60" AFF. Typical.
- Install REME HALO air purifier furnished by TUV in RTU per detail 6/M700. See electrical drawings for power connection information. Install UV warning stickers on face of enclosure per detail and on any RTU access door(s) through which the REME HALO would be visible if opened.
- Maintain 10' clearance between water heater flue termination and outside air intakes. Maintain 10' clearance between water heater combustion air intake and exhaust fan discharge. See plumbing drawings for more information on water heater flue and combustion air terminations.
- Adjust supply registers so that supply air hits wall on opposite side of room at approximately 7' AFF with no drafts felt in the dining room. Typical.

CLIENT:



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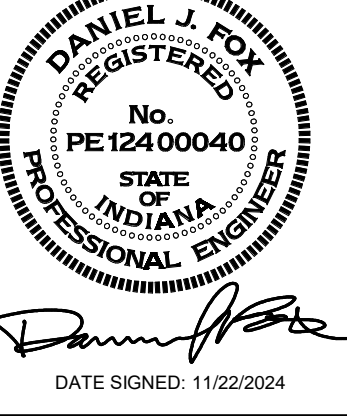
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SEAL:



DATE SIGNED: 11/22/2024

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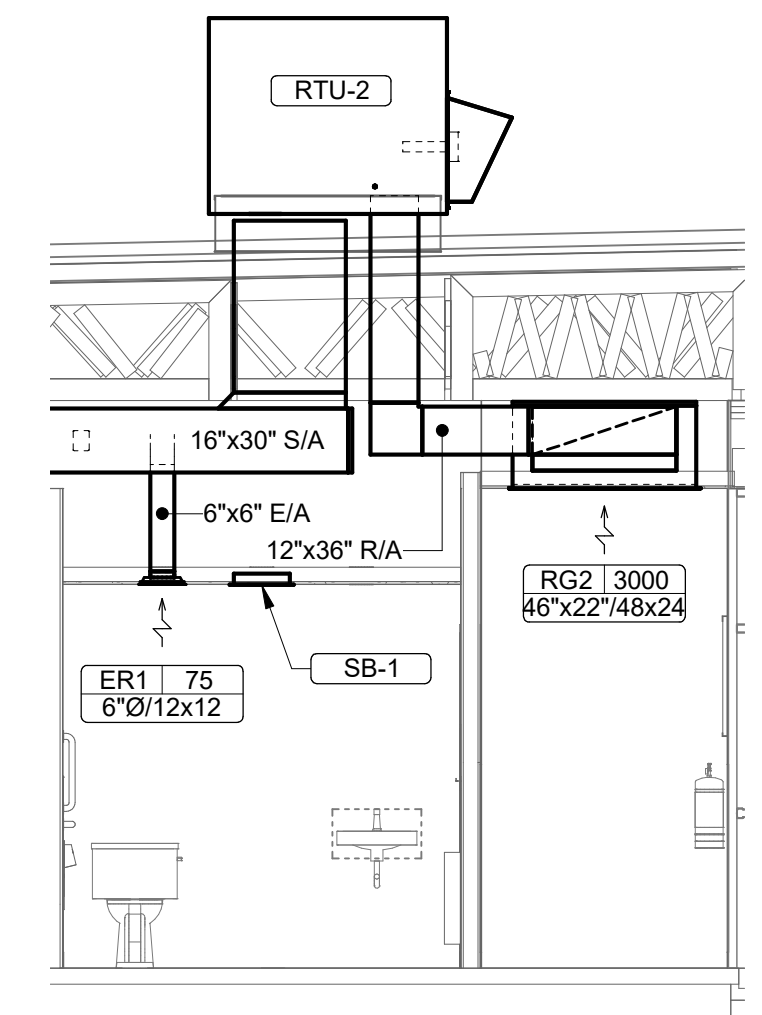
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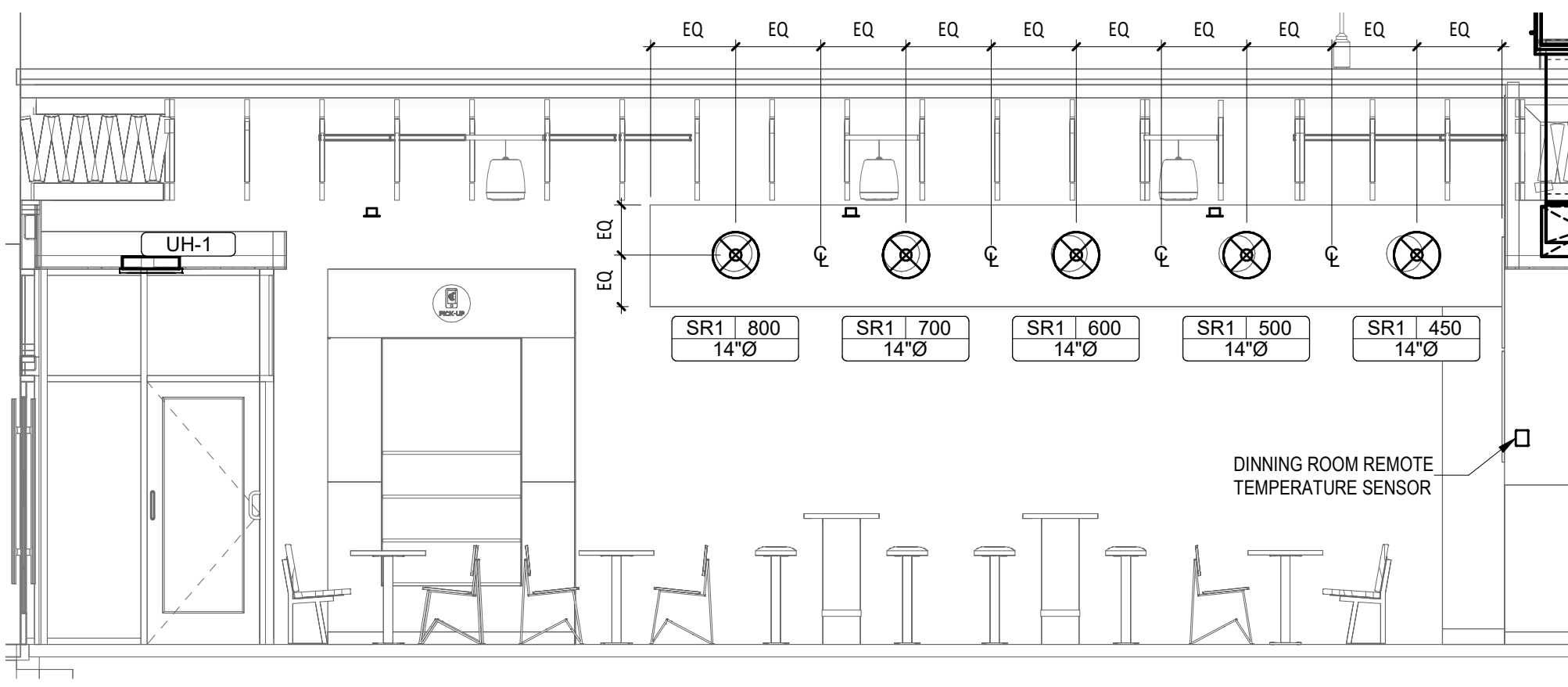
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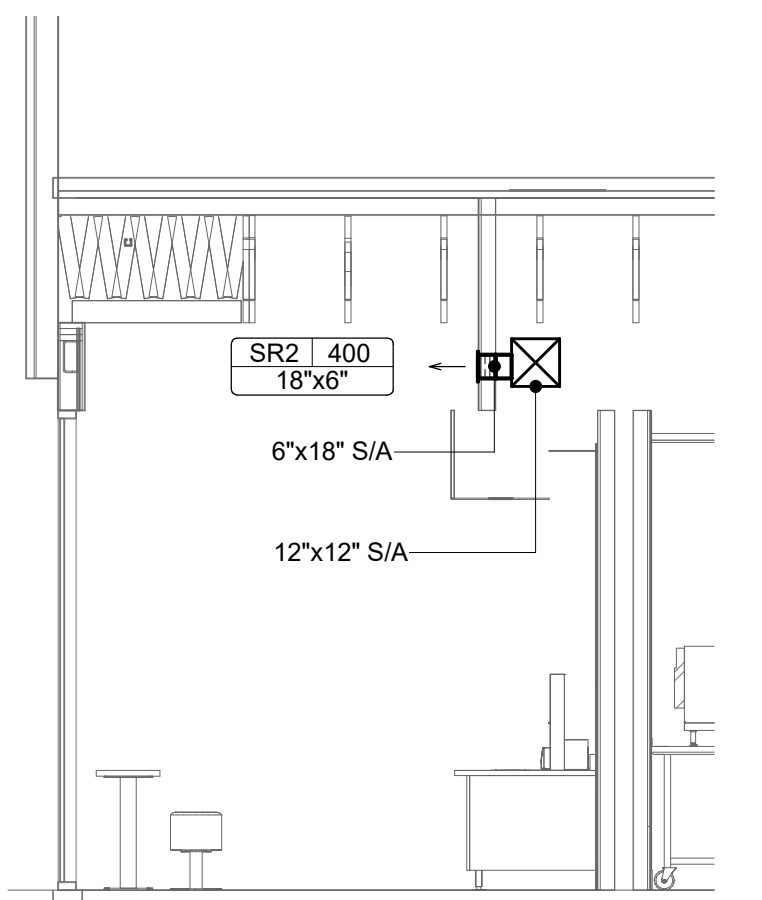
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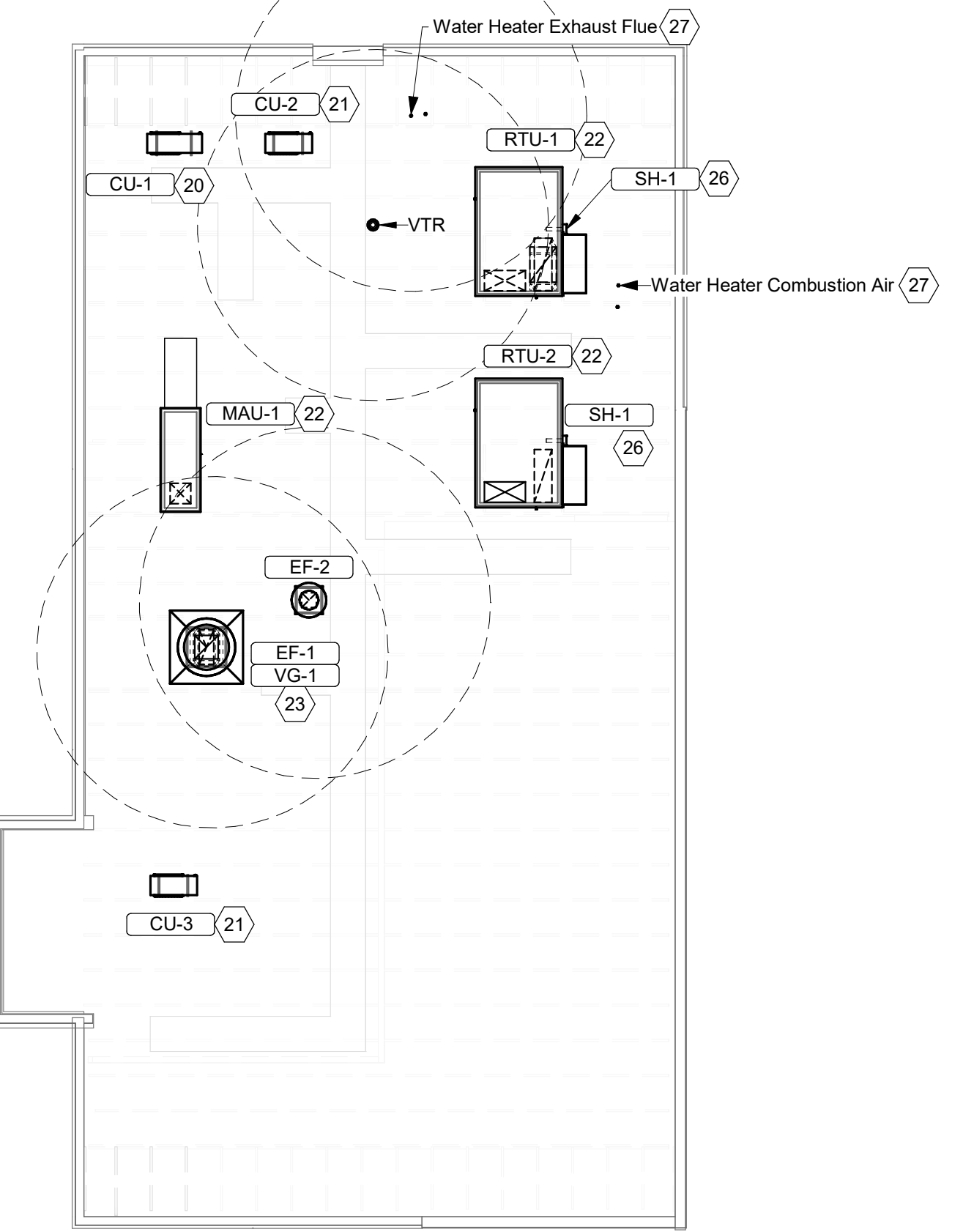
6 HVAC Dining Room Return Section
 1/4" = 1'-0"



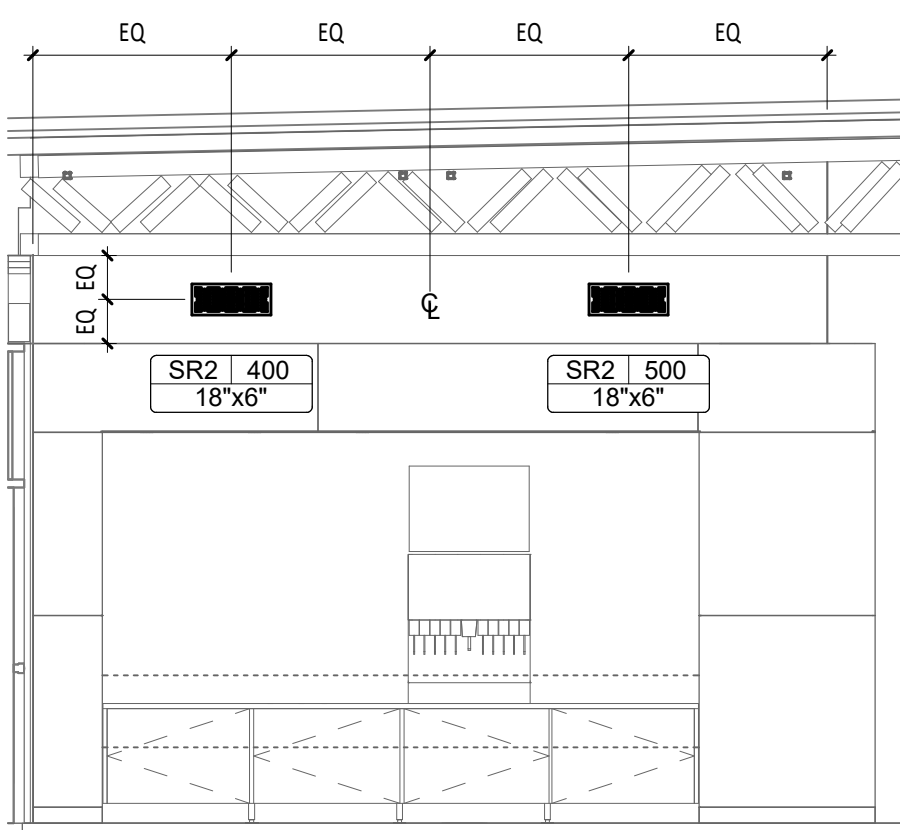
4 HVAC Dining Room Section
 1/4" = 1'-0"



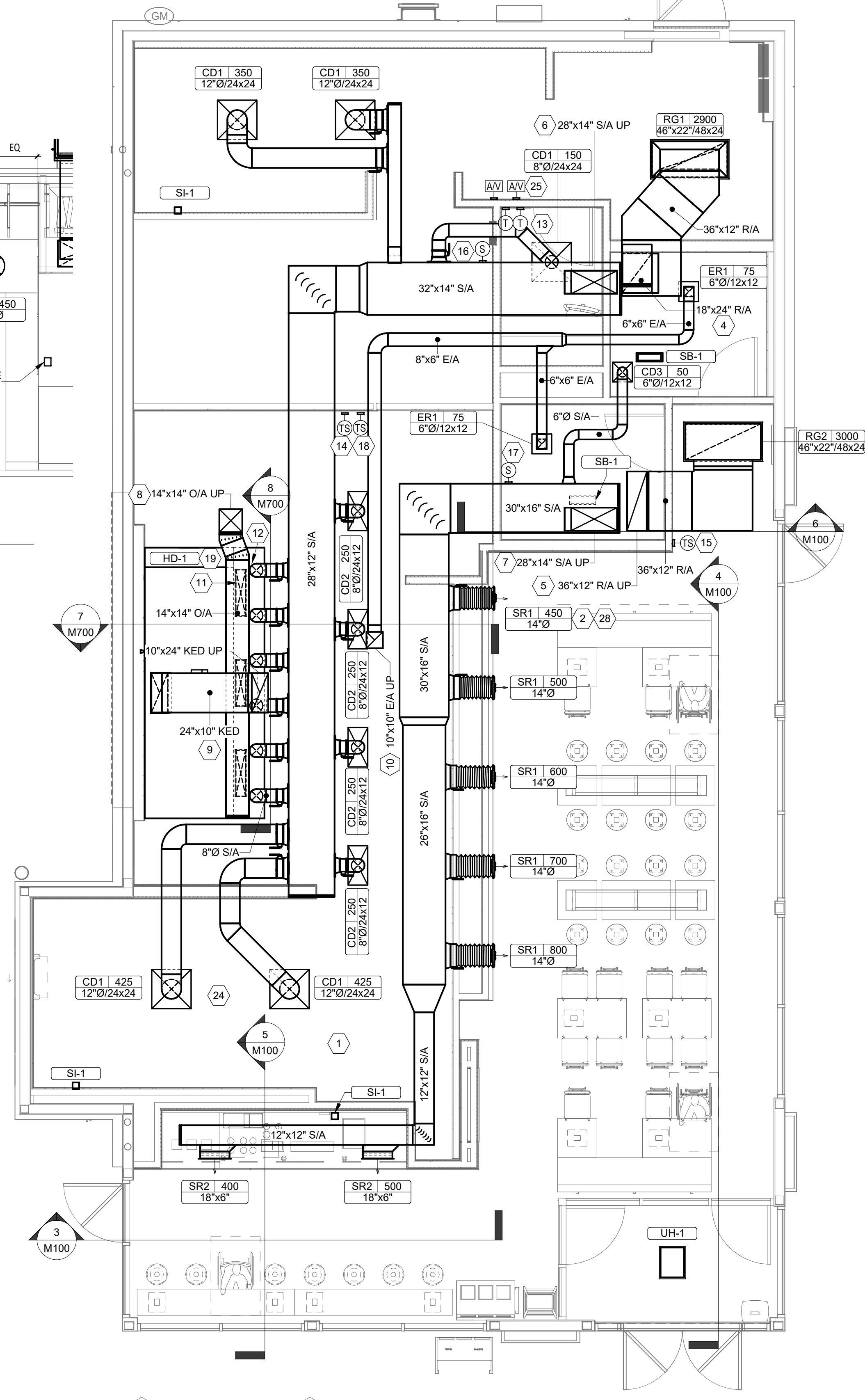
5 HVAC Fountain Area Section
 1/4" = 1'-0"



2 HVAC Roof Plan
 1/8" = 1'-0"



3 HVAC Fountain Area Front Section
 1/4" = 1'-0"



1 HVAC Floor Plan
 1/4" = 1'-0"

Air Balance Schedule					
Identity	Supply Flow	Intake Flow	Return Flow	Exhaust Flow	Net Pressurization
EF-1				2550 CFM	-2550 CFM
EF-2				150 CFM	-150 CFM
MAU-1	1300 CFM	1300 CFM	0 CFM		1300 CFM
RTU-1	3400 CFM	500 CFM	2900 CFM		500 CFM
RTU-2	4000 CFM	1000 CFM	3000 CFM		1000 CFM
Grand total					100 CFM

Viroguard Schedule									
Identity	Count	Description	Duct Connection Size		Fan	Furnished By	Installed By	Basis of Design	Manufacturer
			Width	Height					
VG-1	1	Viroguard Hood Exhaust Fan Rooftop Containment System	16"	16"	EF-1	TDC	GC	enVIRomatic	

Sanitizing Equipment Schedule									
Identity	Count	Description	Furnished By	Installed By	Basis of Design		Specification		
					Manufacturer	Model			
SB-1	2	Bathroom Air Purification Unit	TUV	GC	RGF Environmental Group	BRU Assembly	See Electrical Sheets for connection information.		
SH-1	2	HVAC Air Purification Unit	TUV	GC	RGF Environmental Group	REME-Halo	See Detail 6/M700 for installation information.		
SI-1	3	Ice Machine Treatment System	TUV	GC	RGF Environmental Group	IMS-G-BA	See Plumbing Sheets for installation information.		

Grilles, Registers & Diffusers Schedule											
Identity	Description	Face Size	Material	Finish	Mounting	Furnished By	Installed By	Basis of Design		Specification	
								Manufacturer	Model		
CD1	Perforated Ceiling Diffuser	24x24	Aluminum	White	Lay-In Full Face	GC	GC	Nailor	4320A Type L	Provide with integral OBD.	
CD2	Perforated Ceiling Diffuser	24x12	Aluminum	White	Lay-In Full Face	GC	GC	Nailor	4320A Type L	Provide with integral OBD, remove 4-way deflectors.	
CD3	Ceiling Diffuser	12x12	Aluminum	White Enamel	Surface Mount	GC	GC	Nailor	4320A Type S	Provide with integral OBD	
ER1	Perforated Ceiling Exhaust	12x12	Aluminum	White	Surface Mount	GC	GC	Nailor	4330R Type S	Provide with integral OBD.	
RG1	Perforated Ceiling Return	48x24	Aluminum	White	Lay-In Full Face	GC	GC	Nailor	4330R Type L		
RG2	Perforated Ceiling Return	48x24	Aluminum	White	Lay-In Full Face	GC	GC	Nailor	4330R Type S		
SR1	Adjustable Turbo Nozzle		Aluminum	White	Surface Mount	GC	GC	Air Concepts	ANR-14	Provide with concealed mounting and face-accessible OBD. See neck size on plans.	
SR2	Double Deflection Supply Register		Aluminum	White	Surface Mount	GC	GC	Nailor	51DH	Provide with integral OBD. See neck size on plans.	

Condensing Unit Schedule											
Identity	Description	Refrigerant		Product Weight	Electrical Voltage	Electrical Phase	Furnished By	Installed By	Basis of Design		Specification
		Type	Charge						Manufacturer	Model	
CU-1	Condensing Unit - Walk-in Cooler	R-404A	10.40 lbm	250 lb	208 V	3	WCS	GC	Harford	KPCL99MZOP-3E	Furnished with walk-in cooler.
CU-2	Remote Condenser - Low Capacity Ice Maker	R-404A	11.46 lbm	100 lb	120 V	1	KES	GC	Hoshizaki	URC-9FZ	Furnished with ice maker.
CU-3	Remote Condenser - Soda Machine Ice Maker	R-404A	3.86 lbm	100 lb	120 V	1	KES	GC	Hoshizaki	URC-5FZ	Furnished with ice maker.

HVAC Control Functions

- A. The main cooking exhaust fan (EF-1) and makeup air unit (MAU-1) shall be interlocked to operate together. This control circuit is activated by a switch and includes a fire protection override.
- B. The temperature in each zone is controlled by space temperature sensors connected to the thermostats located in the office. All zones shall operate with continuous fan operation during occupied times and intermittently as needed to maintain set points during unoccupied times. Outside air dampers shall be open continuously when either in occupied mode or when the hood system is ON and shall be closed during unoccupied periods.
- C. The thermostats shall determine occupied/unoccupied status based on the schedule in the energy management system.

Exhaust Fan Schedule												
Identity	Description	Fan Design			Motor Power	Electrical Voltage	Electrical Phase	Furnished By	Installed By	Basis of Design		Specification
		Airflow	ESP	Weight						Manufacturer	Model	
EF-1	Upblast UL762 Exhaust Fan	2550 CFM	1.45 in-wg	220 lb	208 hp	208 V	3	HS	GC	CaptiveAire	DU180HFA	Direct drive UL762 listed fan furnished with weatherproof disconnect and vented roof curb.
EF-2	Downblast Restroom Exhaust Fan	150 CFM	0.60 in-wg	81 lb	0.3 hp	120 V	1	HS	GC	CaptiveAire	DR12HFA	Direct drive restroom exhaust fan furnished with integral disconnect, speed control, backdraft damper, and curb.

Make-Up Air Unit Schedule															
Identity	Description	Airflow	ESP	Heating			Weight	Motor Power	Electrical Voltage	Electrical Phase	Furnished By	Installed By	Basis of Design		Specification
				Input Rating	Output Rating	EAT							Manufacturer	Model	
MAU-1	Make-Up Air Unit	1300 CFM	0.50 in-wg	225000 Btu/h	220000 Btu/h	-1 °F	650 lb	1.00 hp	208 V	3	HS	GC	CaptiveAire	A1-D.250-15D	12.5:1 Turndown. Furnished with disconnect, roof curb, screen intake, and washable aluminum filters.

Kitchen Hood Schedule																							
Identity	Description	Max Cooking Temp	Exhaust Plenum			Perforated Supply Plenums						No. of Light Fixtures	Electrical			Basis of Design		Specification					
			Airflow	ESP	Qty	MAU Plenum			AC Plenum				Furnished By	Installed By	Manufacturer	Model							
						Duct Collars	Duct Collars	Duct Collars	Airflow	Qty	Dia.												
HD-1	Type I Canopy Hood with Perforated MAU and AC Supply Plenums	600 °F	2550 CFM	0.97 in-wg	1	10"	24"	1300 CFM	3	6"	28"	700 CFM	6	8"	8	1150 lb	120 V	1	HS	GC	CaptiveAire	5424 ND-2-ACPSP-F	Material: 18 GA. type 430 SS. Furnished with vertical end panels, 24V gas valve, vaporproof incandescent light fixtures, 16" tall HE SS filters, integral utility cabinet, kitchen exhaust suppression system, duct collar temperature sensor, prewire package, spare fire system dry contact, and 4-pole 20A contactor.

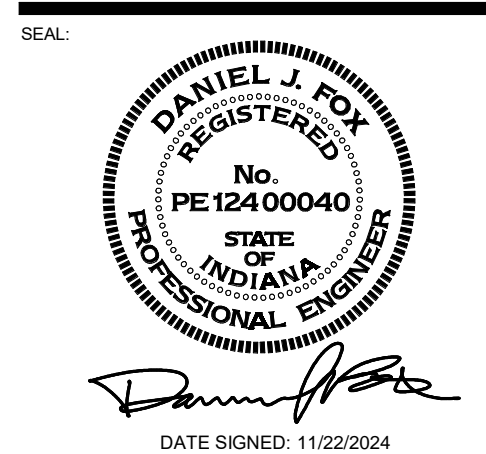
Rooftop Unit Schedule																											
Identity	Description	Nominal Capacity	EER	Airflow			Net Cooling Capacity					Heating Capacity			Number of		Refrigerant	Weight	Electrical				Basis of Design		Specification		
				Total	OA	ESP	Total	Sensible	DB	WB	EDB	Input	Output	EAT	Compressors	Circuits			Type	MOCF	FLA	Voltage	Phase	Furnished By		Installed By	Manufacturer
RTU-1	Kitchen Rooftop Unit	8.5 ton	12	3400 CFM	500 CFM	0.80 in-wg	100800 Btu/h	78200 Btu/h	77.2 °F	64.2 °F	95 °F	180000 Btu/h	146000 Btu/h	60 °F	2	2	R-410A	1094 lb	50 A	45 A	208 V	3	HES	GC	Carrier	48FCFM09C2M5-6W4F0	Furnished with comp. enthalpy economizer, barometric relief, return smoke detector w/ remote keyed annunciator/reset, M.O.D., MERV-8 filters, curb, hail guard, tool-less hinged access panels, disconnect, & unit-mounted convenience receptacle.
RTU-2	Dining Room Rooftop Unit	10.0 ton	12	4000 CFM	1000 CFM	0.80 in-wg	125800 Btu/h	96200 Btu/h	78.8 °F	65.4 °F	95 °F	250000 Btu/h	205000 Btu/h	52 °F	2	2	R-410A	1125 lb	60 A	35 A	208 V	3	HES	GC	Carrier	48FCFN12C2M5-6W4F0	Furnished with comp. enthalpy economizer, barometric relief, return smoke detector w/ remote keyed annunciator/reset, M.O.D., MERV-8 filters, curb, hail guard, tool-less hinged access panels, disconnect, & unit-mounted convenience receptacle.



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PROJECT INFORMATION:

STORE NO.: 5378
 "LA PORTE"
 150 PINE LAKE AVENUE
 LA PORTE, IN 46350



PROJECT NO. 2024-0053
 DRAWN BY LCP
 CHECKED BY LAO

ISSUE RECORD:
 06/04/2024 PERMIT SET
 08/05/2024 BID SET
 09/17/2024 CONSTRUCTION SET

REVISIONS:
 2 10/30/2024 DB05 UPDATES

TITLE:
 HVAC Schedules

SHEET NUMBER:
M600

STORE NO.: 5378
 "LA PORTE"
 150 PINE LAKE AVENUE
 LA PORTE, IN 46350

SEAL:

 DANIEL J. FOX
 REGISTERED PROFESSIONAL ENGINEER
 No. PE12400040
 STATE OF INDIANA
 DATE SIGNED: 11/22/2024

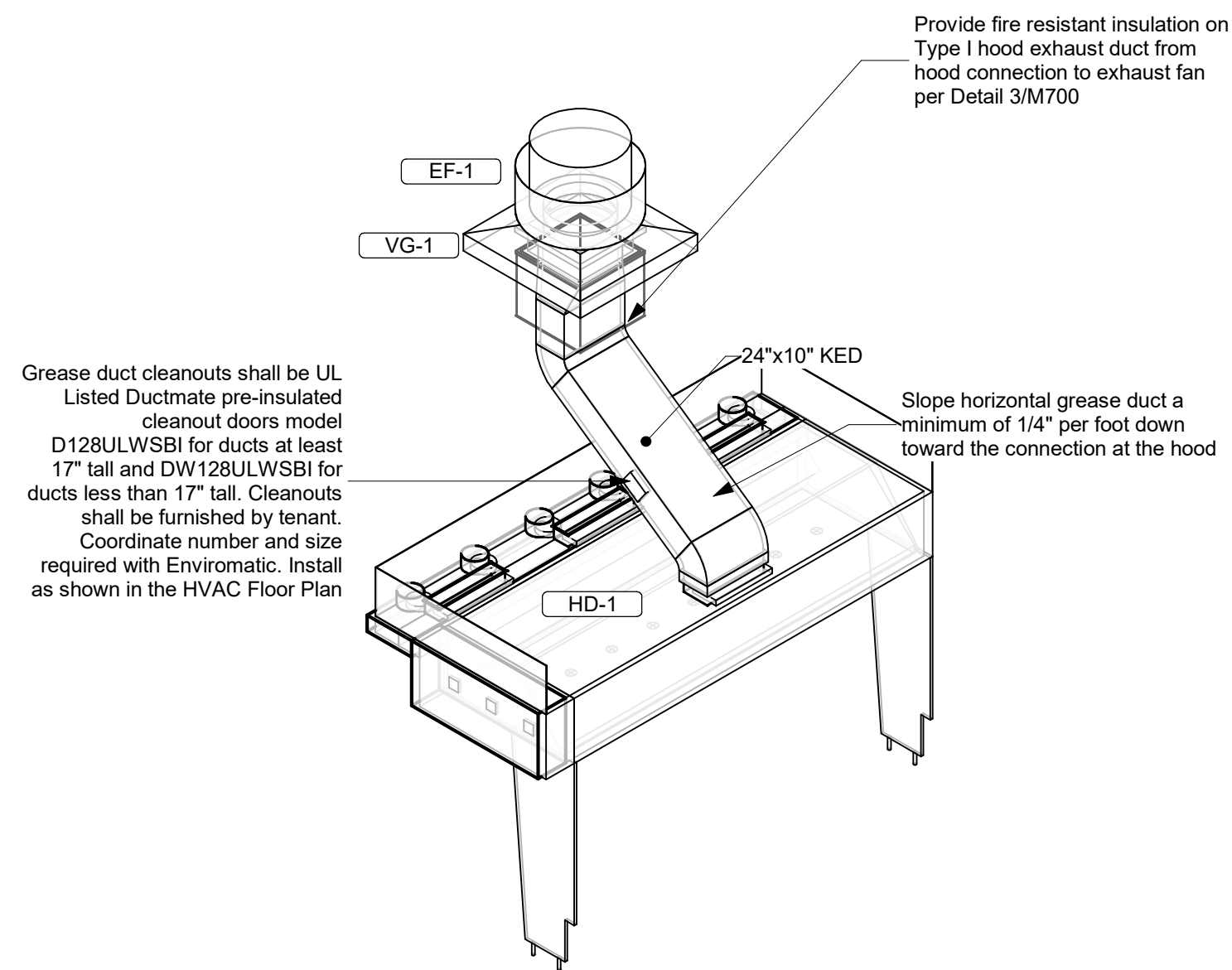
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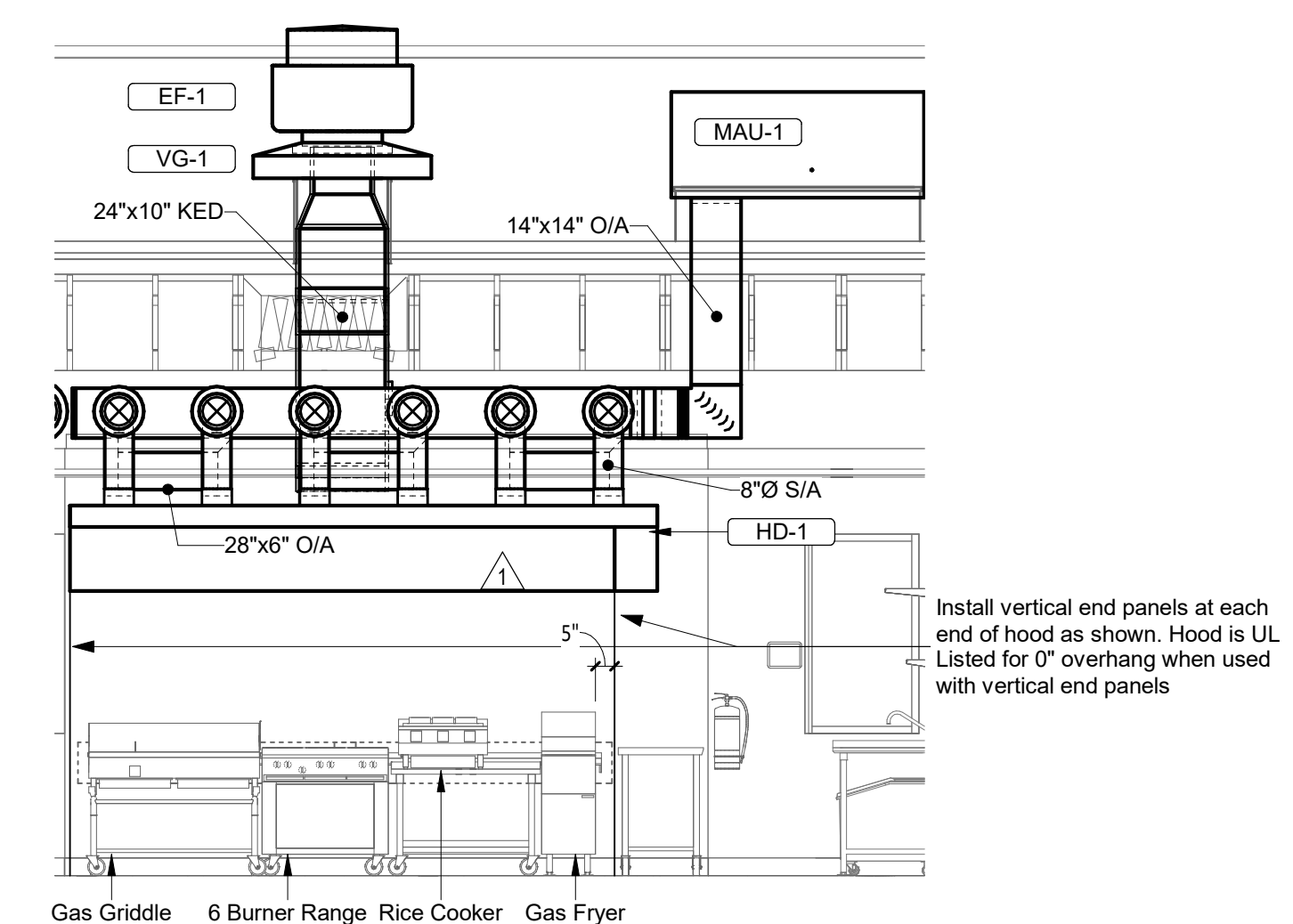
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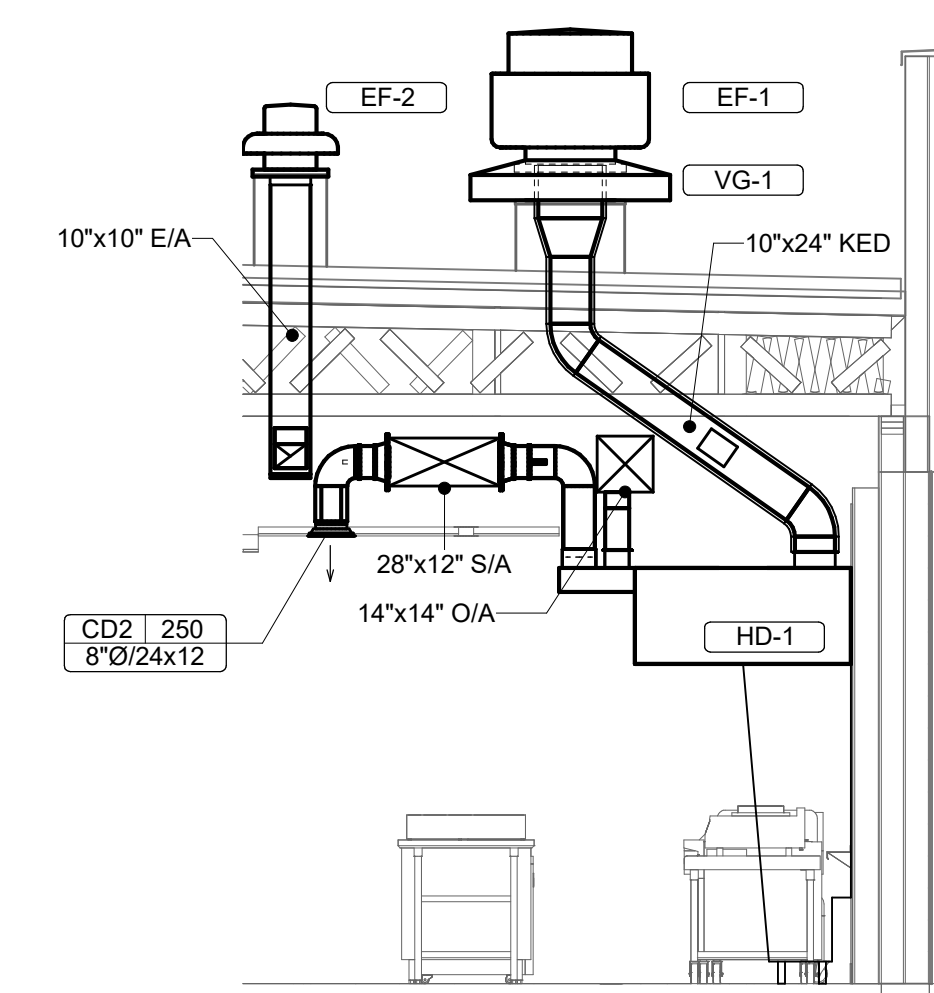
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M700



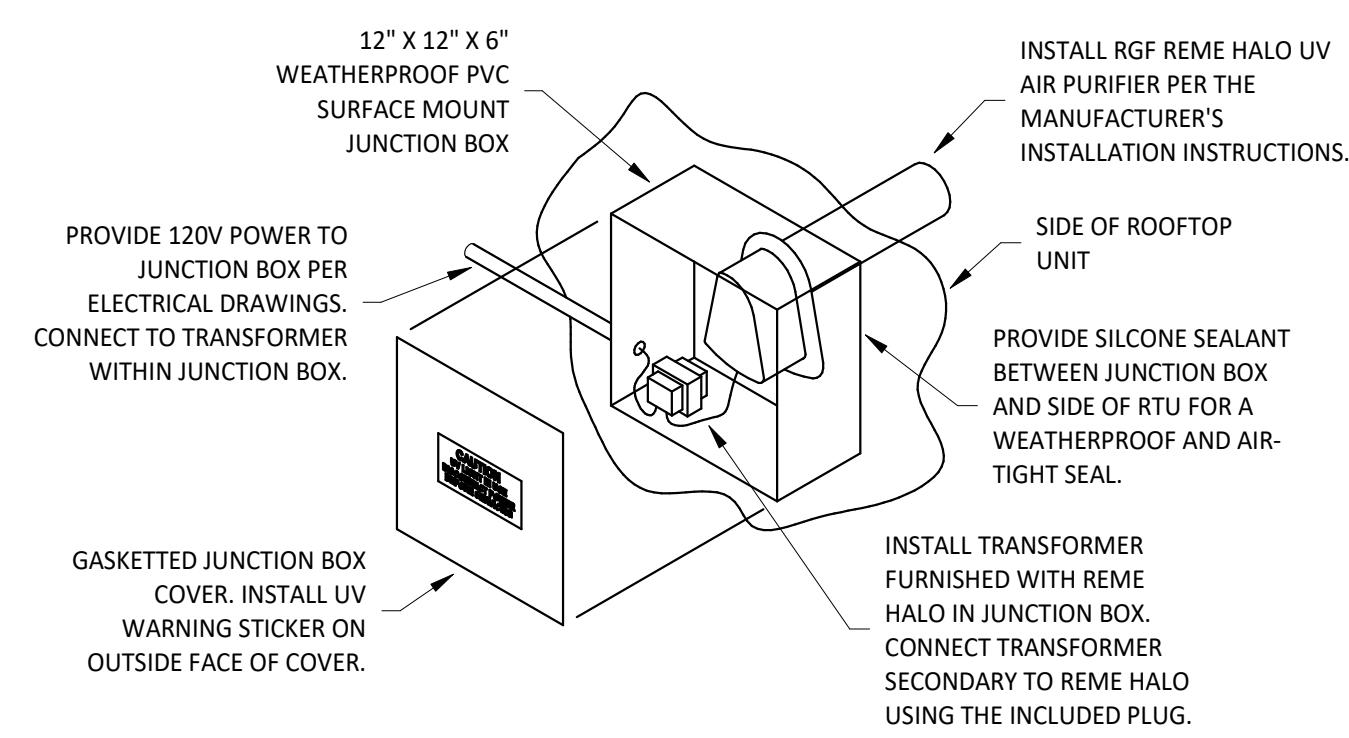
9 Hood Exhaust Riser
 M700 NOT TO SCALE



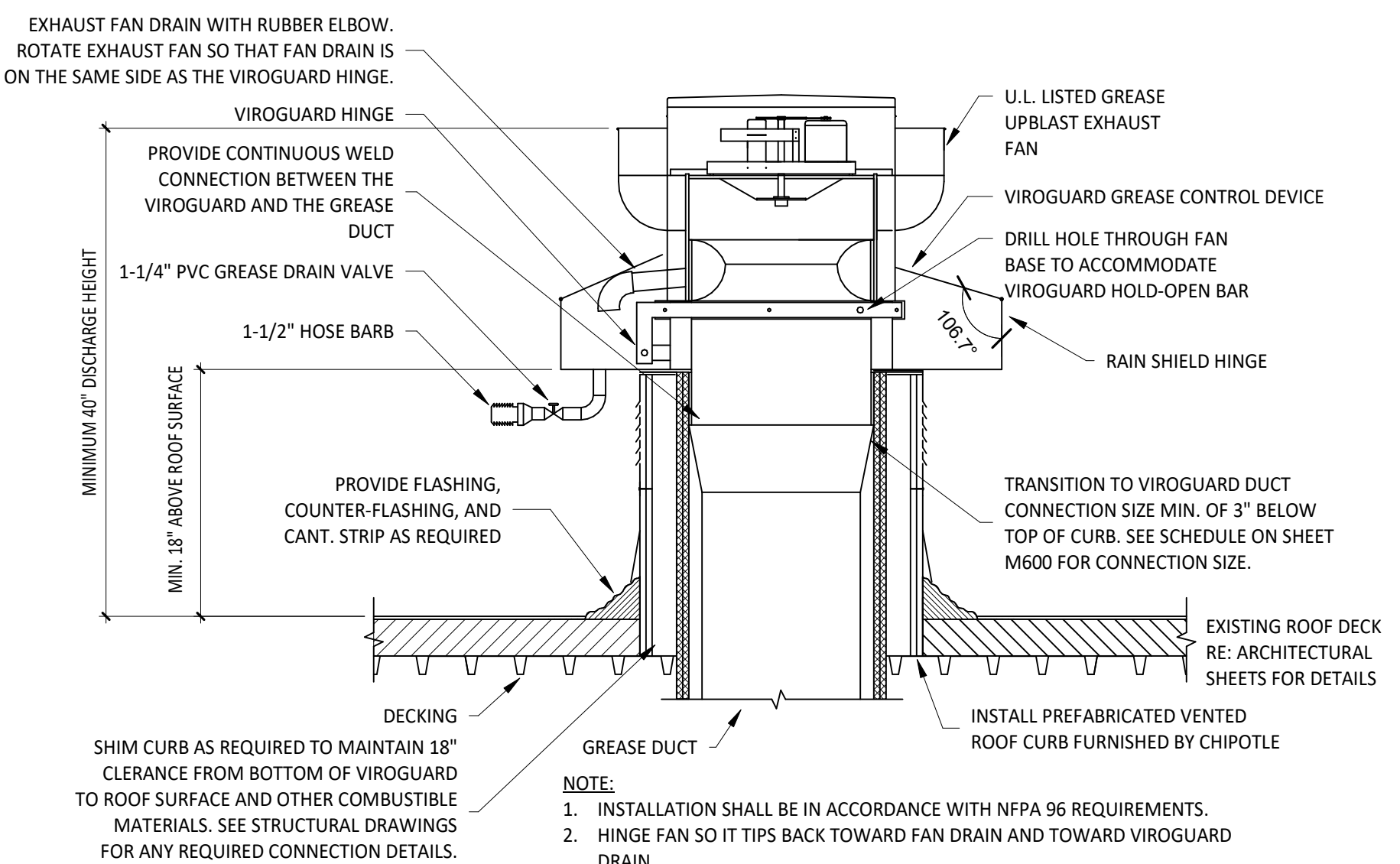
8 Hood Elevation
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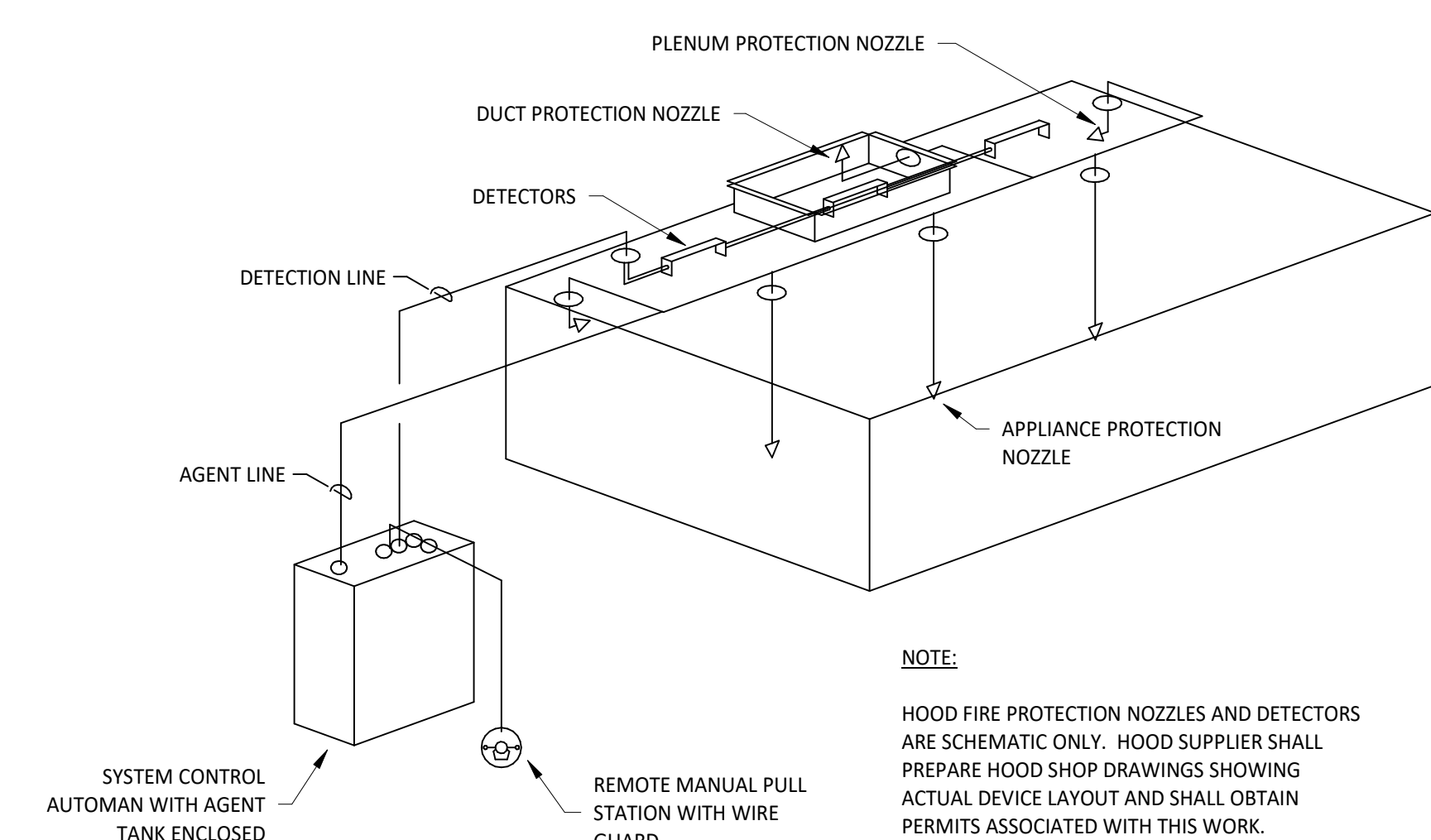
7 Duct Section at Hood
 M700 NOT TO SCALE



6 UV RTU Detail
 M700 NOT TO SCALE

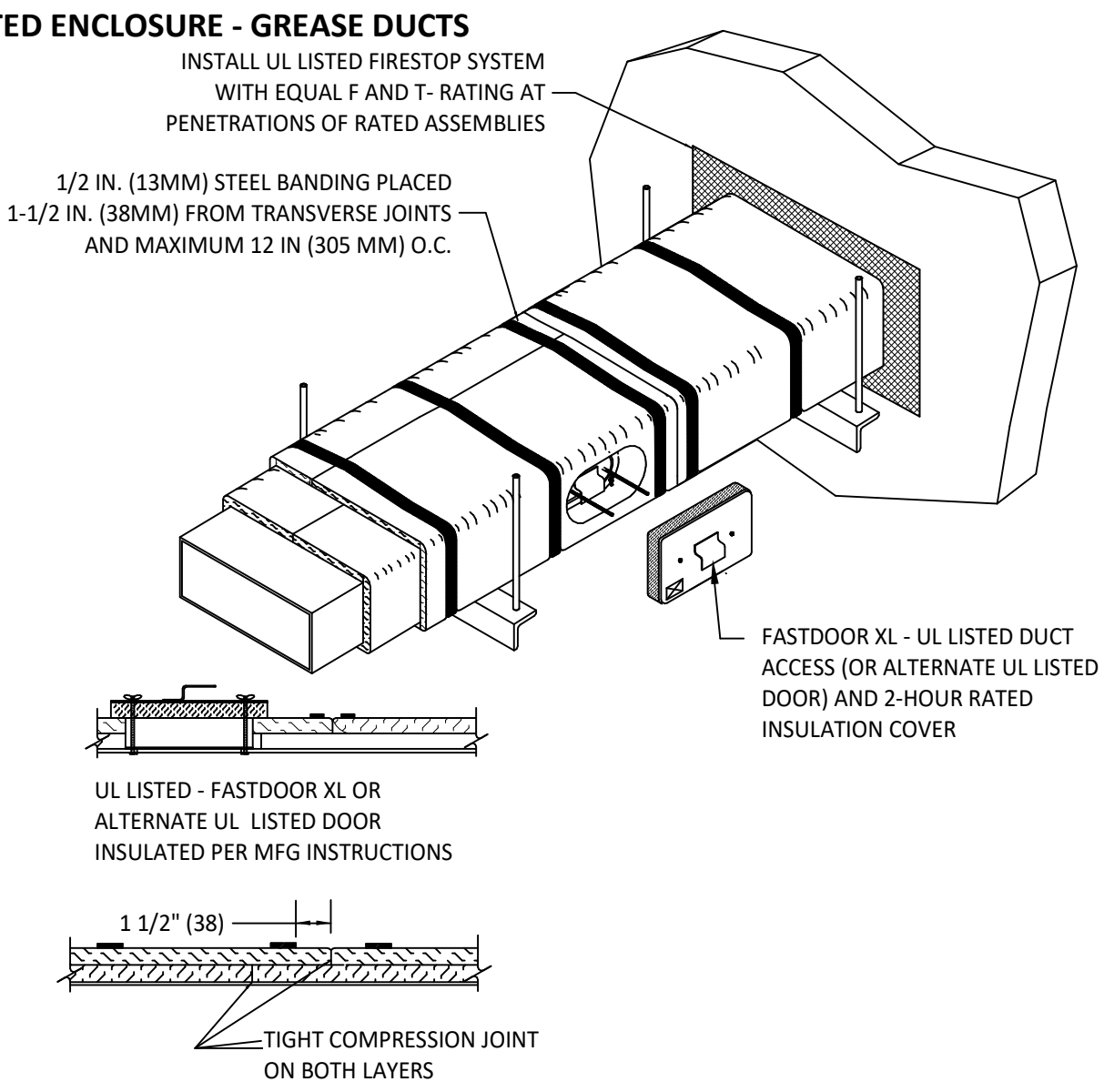


5 Grease Exhaust Fan
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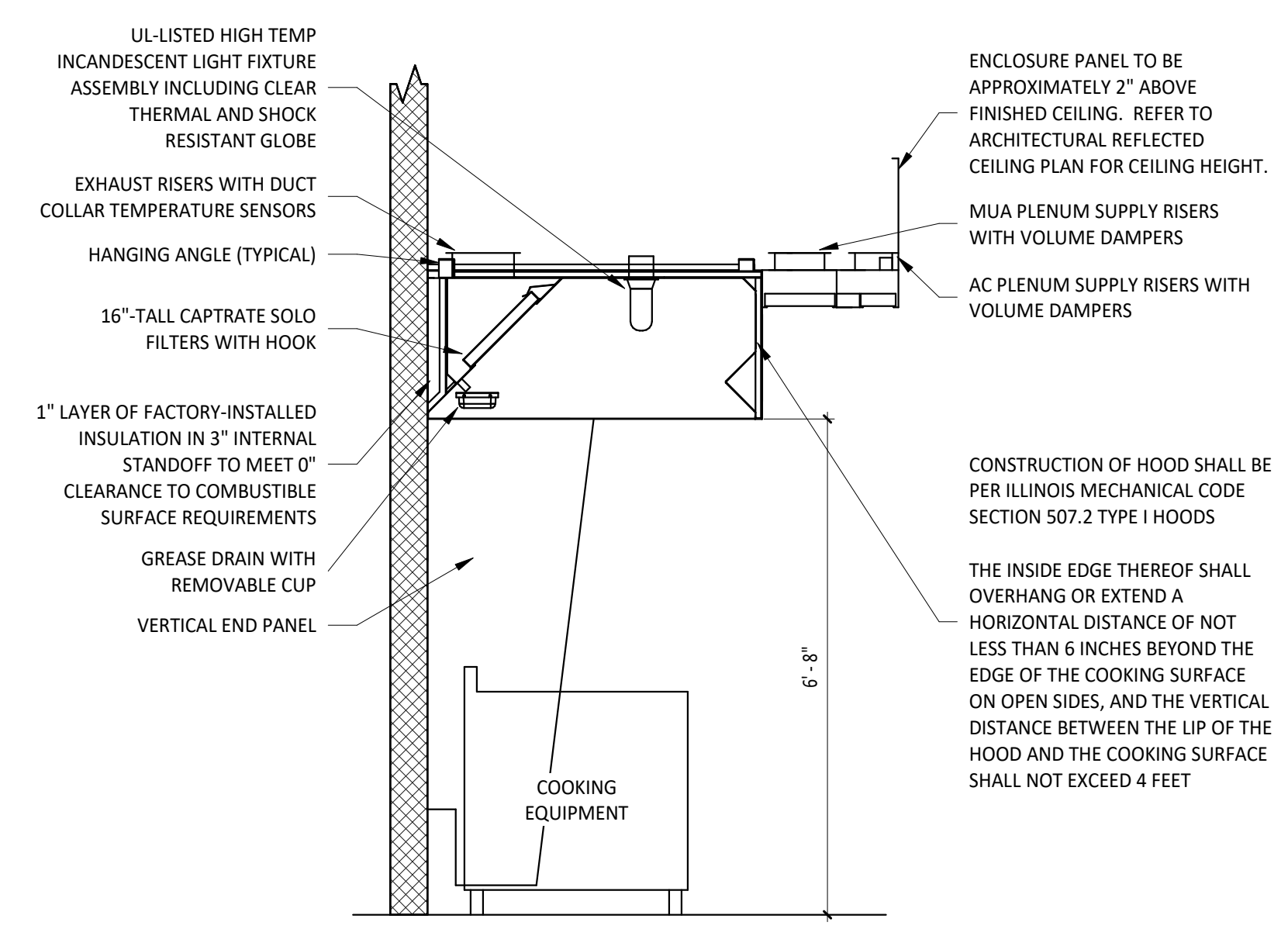


4 Fire Suppression System Schematic
 M700 NOT TO SCALE

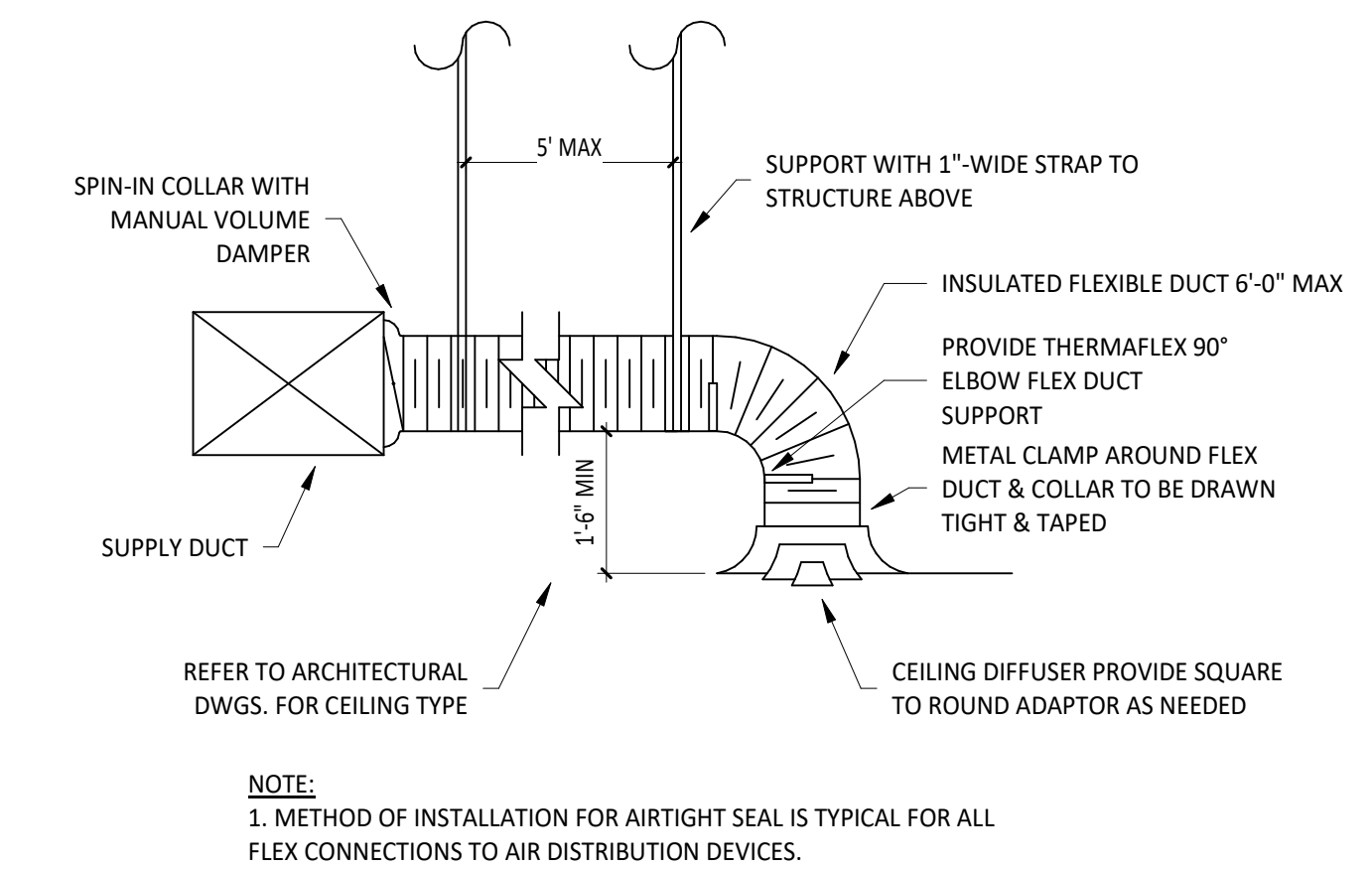
- FIRE RATED ENCLOSURE - GREASE DUCTS**
- THERMAL CERAMICS FIREMASTER FASTWRAP XL IS TESTED TO ASTM E2336 AND UL LISTED PER HNKT.G18 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1- OR 2-HOUR ENCLOSURE. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 814 (UL 1479). ICC CODE EVALUATION PER REPORT UL ER 14229-01.
 - COMPLIANT TO THE FOLLOWING CODES:
 NFPA 96
 INTERNATIONAL MECHANICAL CODES
 UNIFORM MECHANICAL CODE.
 CALIFORNIA MECHANICAL CODE
 - INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON BOTH LAYERS AT ALL JOINTS.
 - MINIMUM 16 GAUGE CARBON STEEL (OR 18 GAGE STAINLESS STEEL) RECTANGULAR OR ROUND GREASE EXHAUST DUCT
 - INSTALL UL LISTED AND LIQUID TIGHT THERMAL CERAMICS FASTDOOR XL ACCESS DOORS, OR ALTERNATE DOOR UL LISTED PER UL1978, AT ALL CHANGES IN DIRECTION AND AT MINIMUM EVERY 20 FT ON HORIZONTAL RUNS.
 - SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE MINIMUM OF 3/8 IN. DIAMETER AND SUPPORTS ARE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
 - THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED DIRECTLY ONTO THE DUCT AND APPLIED FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.
 - THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND UL LISTINGS.



3 Firemaster Duct Wrap
 M700 NOT TO SCALE



2 Hood Section View
 M700 NOT TO SCALE



1 Diffuser Connection
 M700 NOT TO SCALE